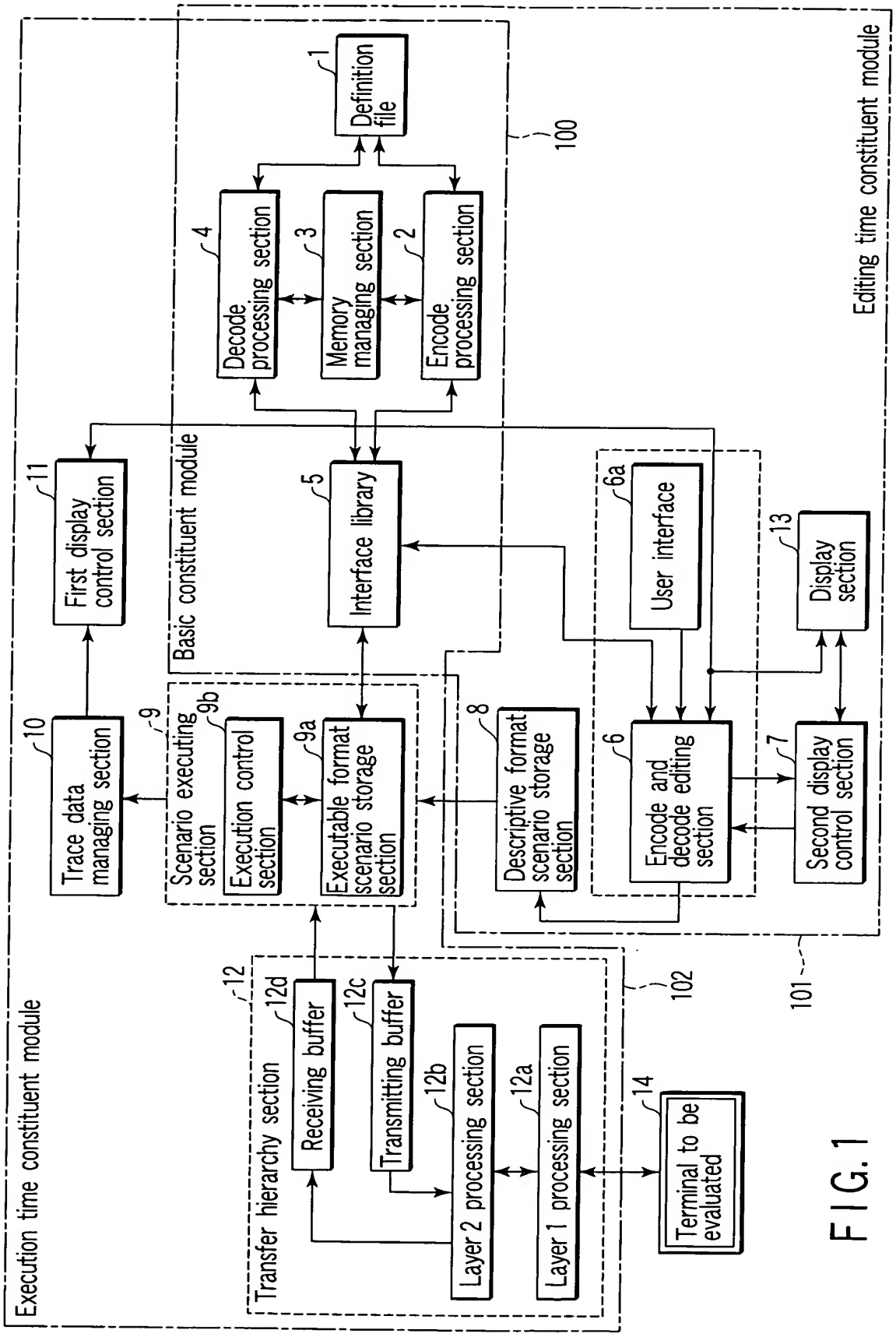
Execution time constituent module
Editing time constituent module
Basic constituent module
100
101
102
1
Definition file
2
Encode processing section
3
Memory managing section
4
Decode processing section
5
Interface library
6
Encode and decode editing section
6a
User interface
7
Second display control section
8
Descriptive format scenario storage section
9
Scenario executing section
9a
Executable format scenario storage section
9b
Execution control section
10
Trace data managing section
11
First display control section
12
Transfer hierarchy section
12a
Layer 1 processing section
12b
Layer 2 processing section
12c
Transmitting buffer
12d
Receiving buffer
13
Display section
14
Terminal to be evaluated

FIG. 1

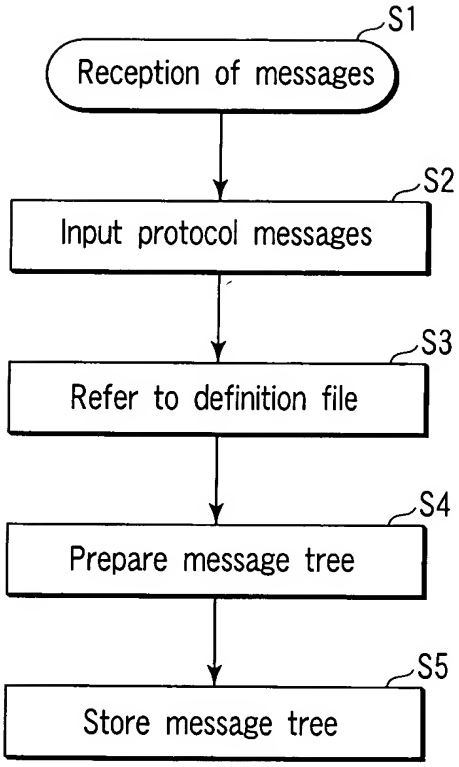
S1
Reception of messages
S2
Input protocol messages
S3
Refer to definition file
S4
Prepare message tree
S5
Store message tree

FIG. 2A

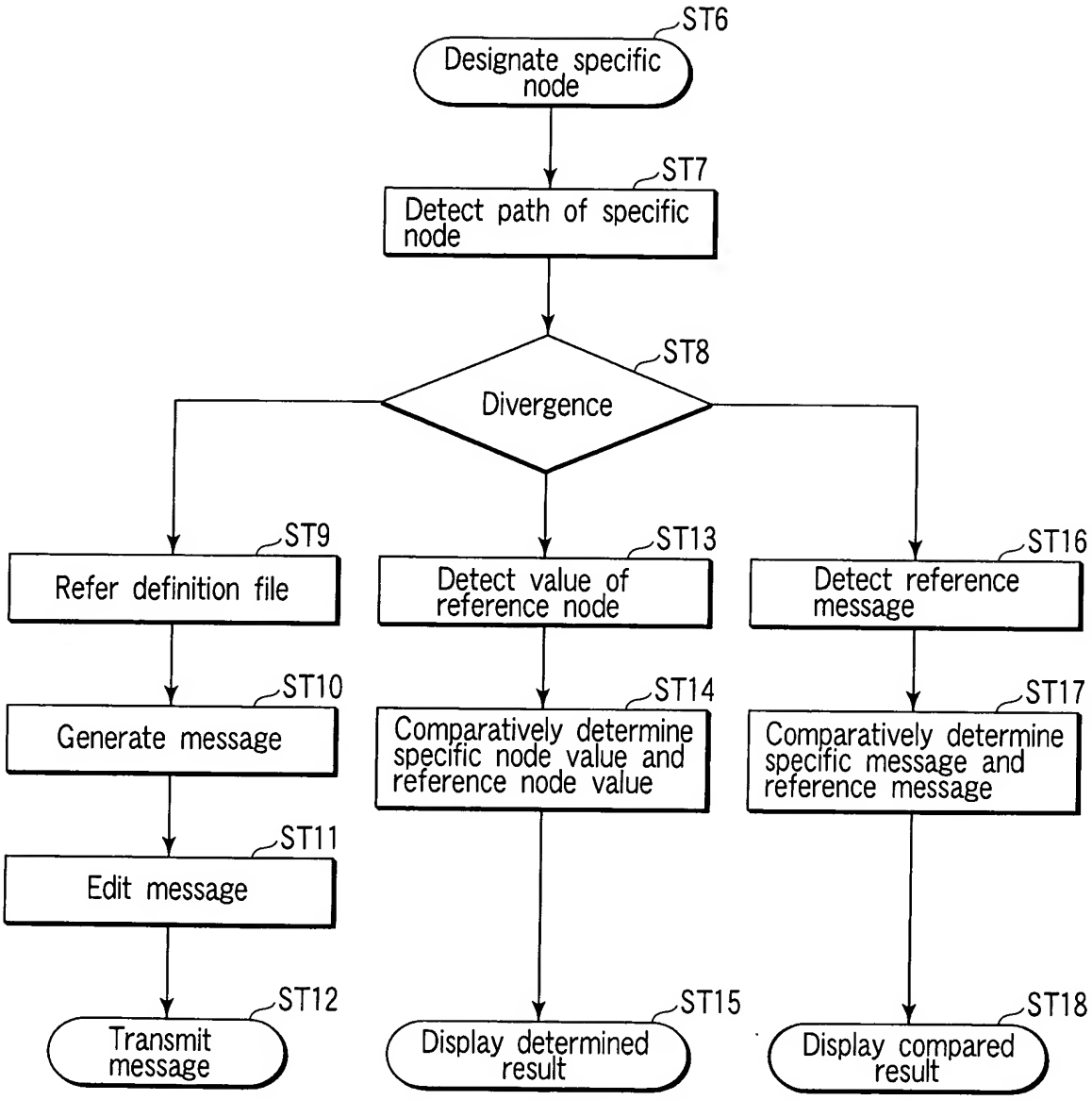
ST6
Designate specific node
ST7
Detect path of specific node
ST8
Divergence
ST9
Refer definition file
ST10
Generate message
ST11
Edit message
ST12
Transmit message
ST13
Detect value of reference node
ST14
Comparatively determine specific node value and reference node value
ST15
Display determined result
ST16
Detect reference message
ST17
Comparatively determine specific message and reference message
ST18
Display compared result

FIG. 2B

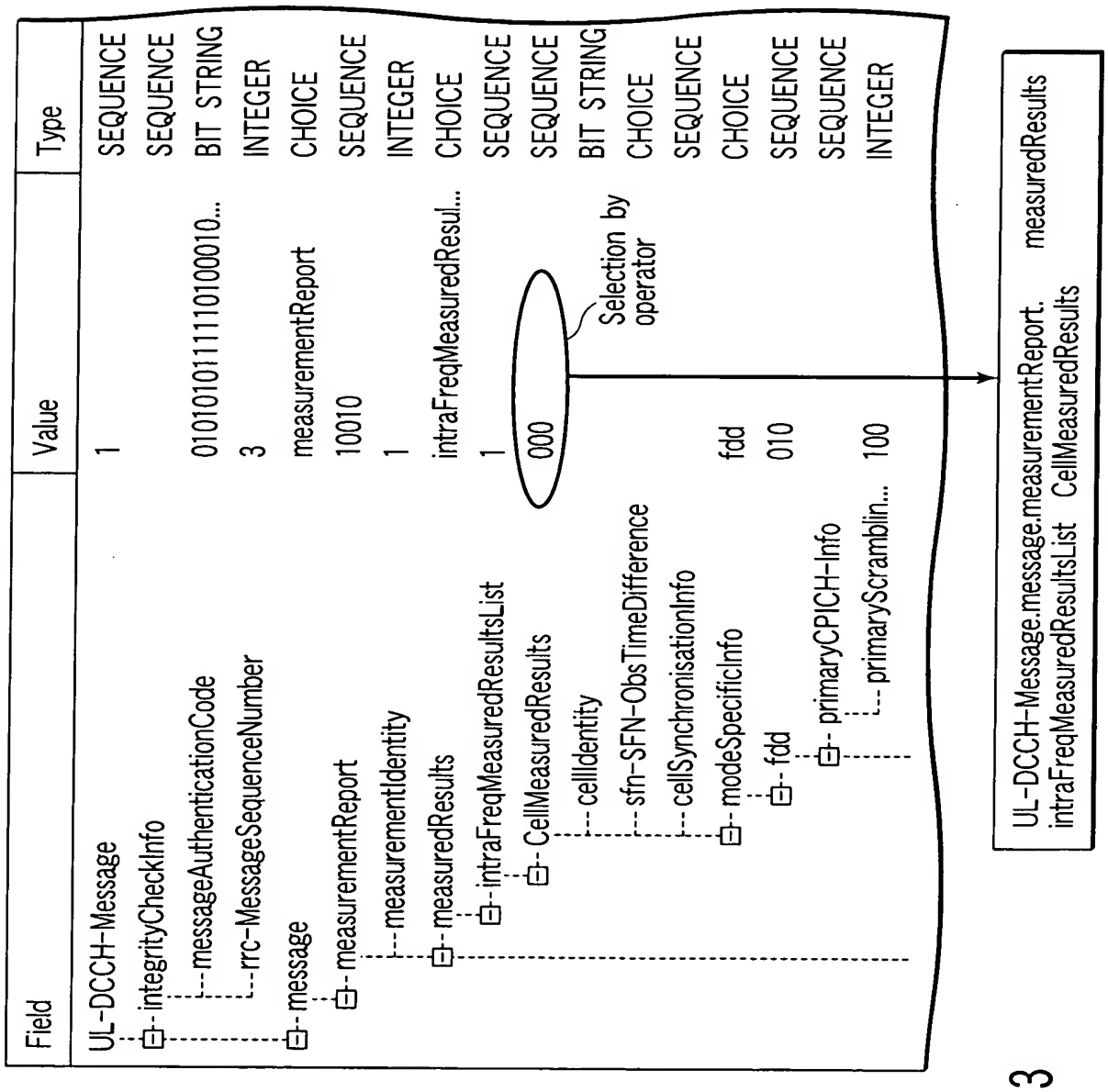
Field
Value
Type
UL-DCCH-Message
1
SEQUENCE
integrityCheckInfo
SEQUENCE
messageAuthenticationCode
0101010111110100010...
BIT STRING
rrc-MessageSequenceNumber
3
INTEGER
message
measurementReport
CHOICE
measurementReport
10010
SEQUENCE
measurementIdentity
1
INTEGER
measuredResults
intraFreqMeasuredResul...
CHOICE
intraFreqMeasuredResultsList
1
SEQUENCE
CellMeasuredResults
000
SEQUENCE
cellIdentity
BIT STRING
sfn-SFN-ObsTimeDifference
Selection by operator
CHOICE
cellSynchronisationInfo
SEQUENCE
modeSpecificInfo
fdd
CHOICE
fdd
010
SEQUENCE
primaryCPICH-Info
SEQUENCE
primaryScramblin...
100
INTEGER
UL-DCCH-Message.message.measurementReport. measuredResults
intraFreqMeasuredResultsList CellMeasuredResults

FIG. 3

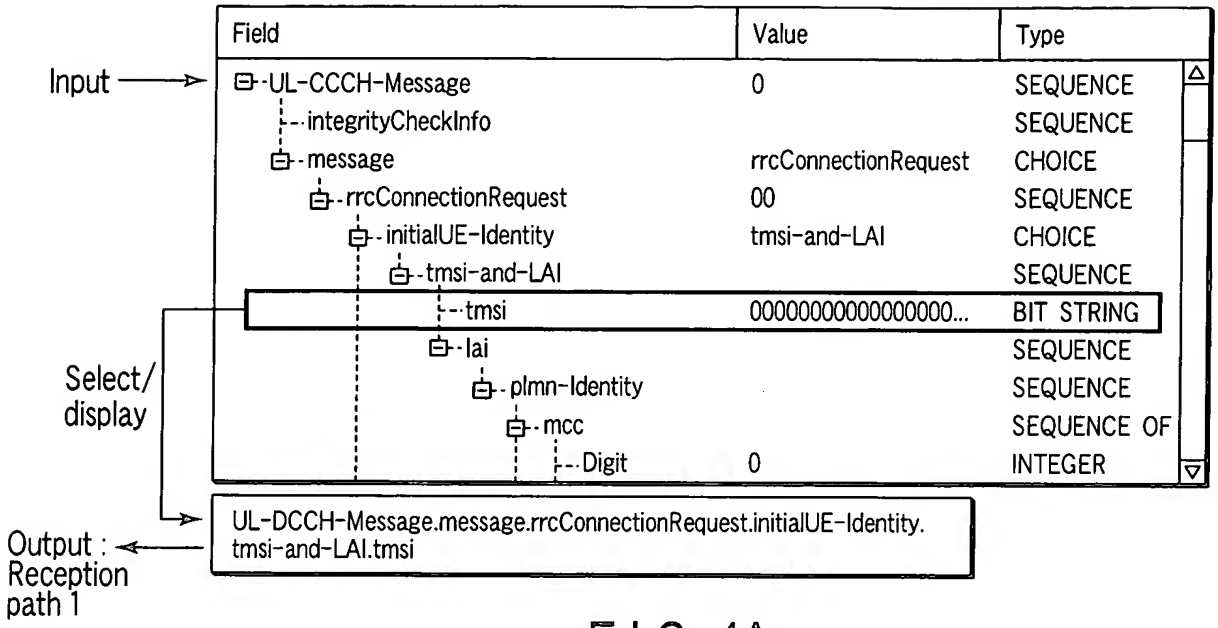
Field
Value
Type
Input
UL-CCCH-Message
0
SEQUENCE
integrityCheckInfo
SEQUENCE
message
rrcConnectionRequest
CHOICE
rrcConnectionRequest
00
SEQUENCE
initialUE-Identity
tmsi-and-LAI
CHOICE
tmsi-and-LAI
SEQUENCE
tmsi
00000000000000000...
BIT STRING
lai
SEQUENCE
plmn-Identity
SEQUENCE
mcc
SEQUENCE OF
Digit
0
INTEGER
Select/
display
Output :
Reception
path 1
UL-DCCH-Message.message.rrcConnectionRequest.initialUE-Identity.
tmsi-and-LAI.tmsi

FIG. 4A

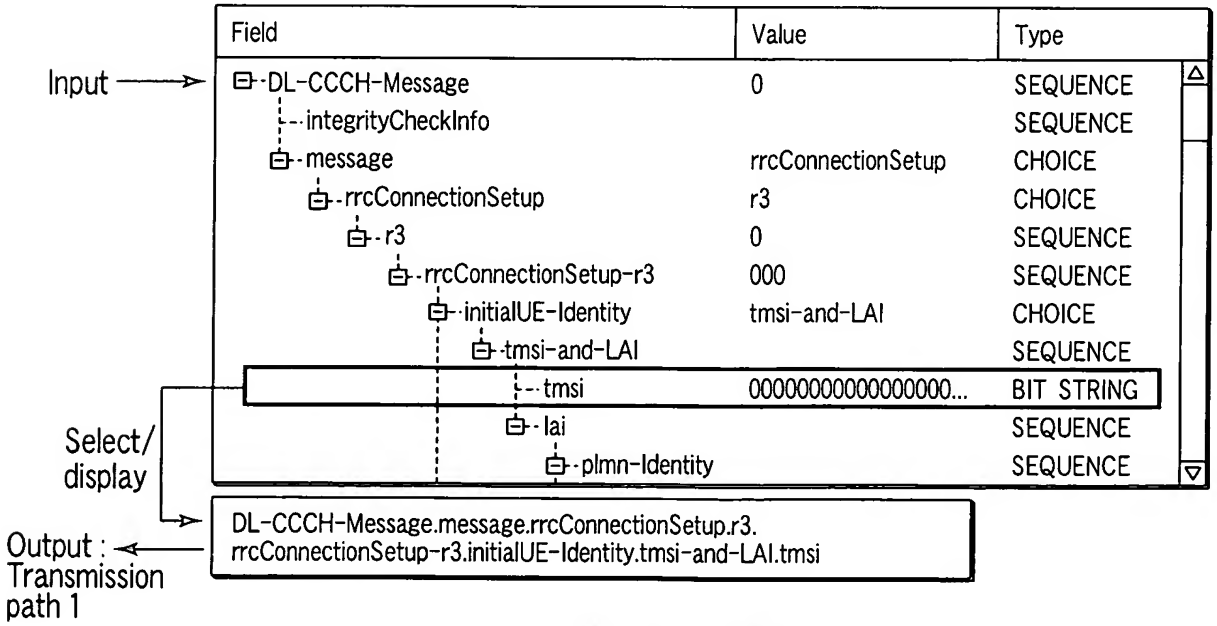
Field
Value
Type
Input
DL-CCCH-Message
0
SEQUENCE
integrityCheckInfo
SEQUENCE
message
rrcConnectionSetup
CHOICE
rrcConnectionSetup
r3
CHOICE
r3
0
SEQUENCE
rrcConnectionSetup-r3
000
SEQUENCE
initialUE-Identity
tmsi-and-LAI
CHOICE
tmsi-and-LAI
SEQUENCE
tmsi
00000000000000000...
BIT STRING
lai
SEQUENCE
plmn-Identity
SEQUENCE
Select/
display
Output :
Transmission
path 1
DL-CCCH-Message.message.rrcConnectionSetup.r3.
rrcConnectionSetup-r3.initialUE-Identity.tmsi-and-LAI.tmsi

FIG. 4B

Line	Scenario
1	ReceiveMessage (RcvDataTmp);
2	API_Decode (RcvDataTmp, r_buff);
3	API_GetValueAt (r_buff, Reception path 1, variable 1);
4	API_Decode (Default Transmit Message, s_buff);
5	API_SetValueAt (s_buff, Transmission path 1, variable 1);
6	API_Encode (s_buff, Transmit Message);
7	SendMessage (Transmit Message);

FIG. 5

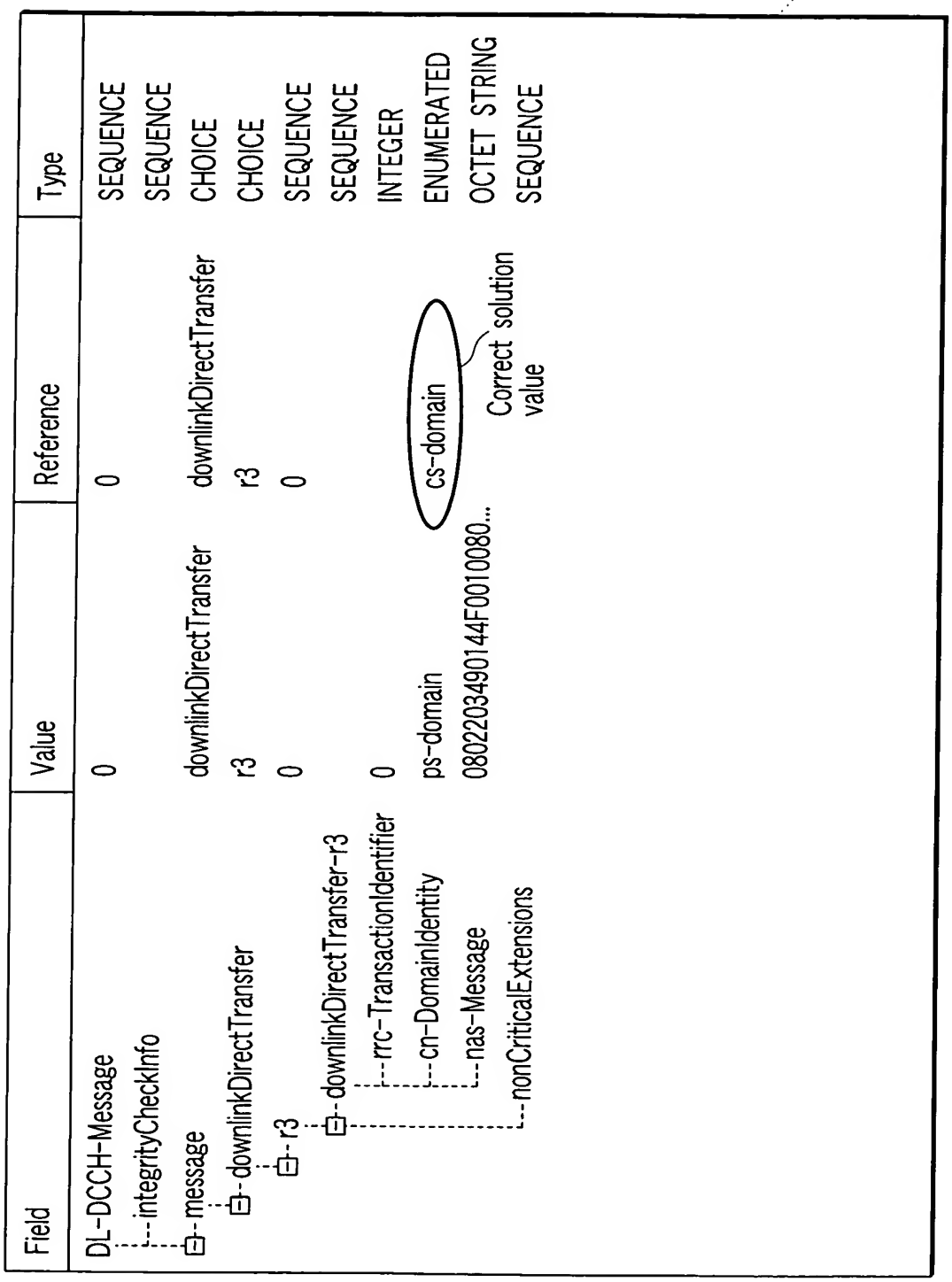
Field
Value
Reference
Type
DL-DCCH-Message
0
0
SEQUENCE
integrityCheckInfo
SEQUENCE
message
downlinkDirectTransfer
downlinkDirectTransfer
CHOICE
downlinkDirectTransfer
r3
r3
CHOICE
r3
0
0
SEQUENCE
downlinkDirectTransfer-r3
SEQUENCE
rrc-TransactionIdentifier
0
INTEGER
cn-DomainIdentity
ps-domain
cs-domain
ENUMERATED
nas-Message
080220349014 4F0010080...
OCTET STRING
nonCriticalExtensions
SEQUENCE
Correct solution value

FIG. 6

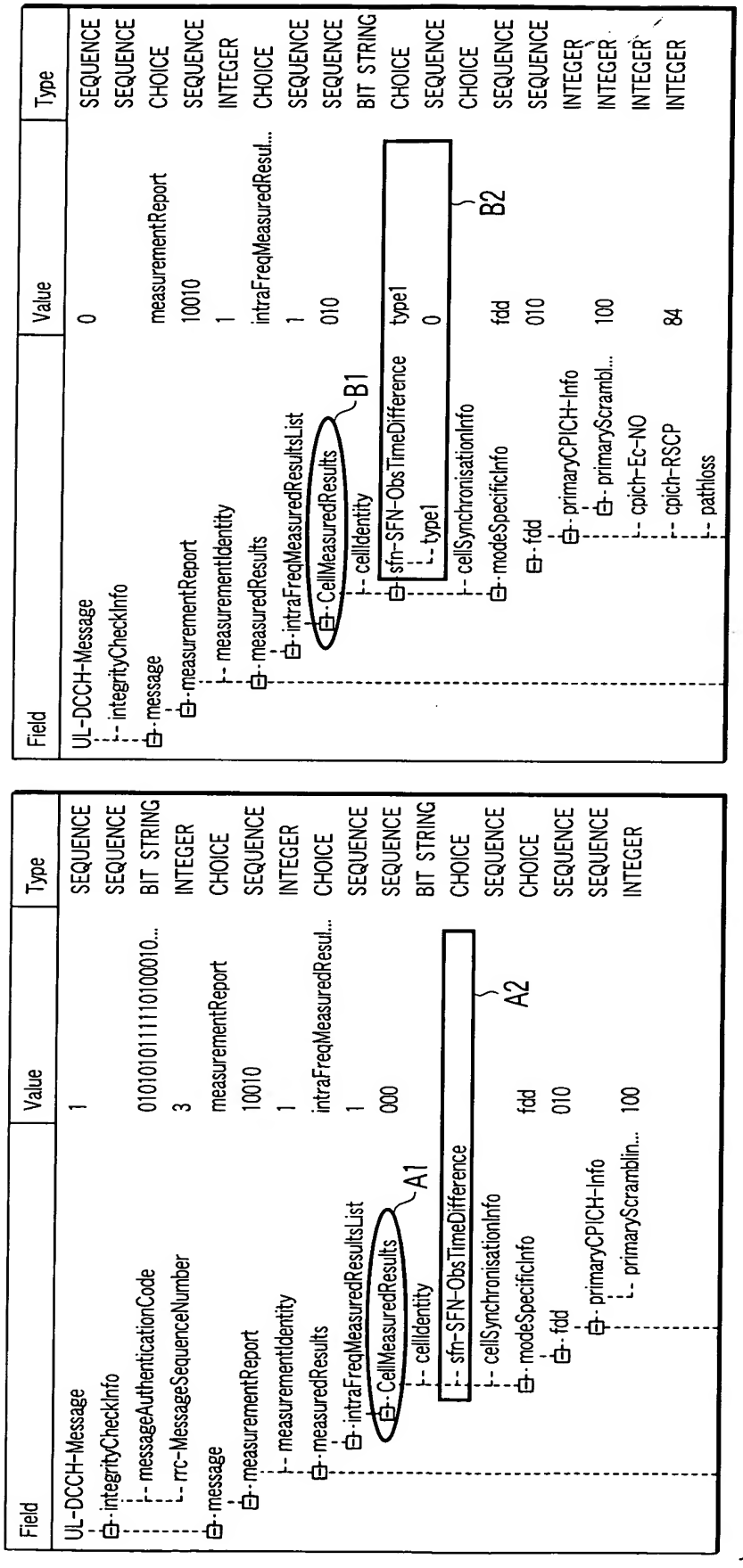
Field
Value
Type
UL-DCCH-Message
integrityCheckInfo
messageAuthenticationCode
rrc-MessageSequenceNumber
message
measurementReport
measurementIdentity
measuredResults
intraFreqMeasuredResultsList
CellMeasuredResults
cellIdentity
sfn-SFN-ObsTimeDifference
cellSynchronisationInfo
modeSpecificInfo
fdd
primaryCPICH-Info
primaryScramblin...
cpich-Ec-NO
cpich-RSCP
pathloss
type1
SEQUENCE
BIT STRING
INTEGER
CHOICE
A1
A2
B1
B2

FIG. 7

Field	Value	Type
-UL-CCCH-Message	0	SEQUENCE
--integrityCheckInfo		SEQUENCE
-message	rrcConnectionRequest	CHOICE
--rrcConnectionRequest	00	SEQUENCE
---initialUE-Identity	tmsi-and-LAI	CHOICE
----tmsi-and-LAI		SEQUENCE
-----tmsi	00000000000000000...	BIT STRING
-----lai		SEQUENCE
------plmn-Identity		SEQUENCE
-------mcc		SEQUENCE OF
--------Digit	0	INTEGER

FIG. 8A (PRIOR ART)

Field	Value	Type
-UL-CCCH-Message	1	SEQUENCE
--integrityCheckInfo	00000000000000000...	SEQUENCE
---messageAuthenticationCode	0	BIT STRING
---rrc-MessageSequenceNumber	rrcConnectionRequest	INTEGER
-message	00	CHOICE
--rrcConnectionRequest	tmsi-and-LAI	SEQUENCE
---initialUE-Identity		CHOICE
----tmsi-and-LAI	00000000000000000...	SEQUENCE
-----tmsi		BIT STRING
-----lai		SEQUENCE
------plmn-Identity		SEQUENCE
-------mcc	0	SEQUENCE OF
--------Digit		INTEGER

FIG. 8B (PRIOR ART)

```
Related portion extracted from TS25.331
UL-CCCH-Message : : = SEQUENCE {
        integrityCheckInfo      IntegrityCheckInfo              OPTIONAL,
        message                 UL-CCCH-MessageType
}
IntegrityCheckInfo : : =                SEQUENCE {
        messageAuthenticationCode               MessageAuthenticationCode,
        rrc-MessageSequenceNumber               RRC-MessageSequenceNumber
}
MessageAuthenticationCode : : =                 BIT STRING (SIZE (32) )
RRC-MessageSequenceNumber : : =                 INTEGER (0 ... 15)
UL-CCCH-MessageType : : = CHOICE {
        cellUpdate                              CellUpdate,
        rrcConnectionRequest            RRCConnectionRequest,
        UraUpdate                               URAUpdate,
        spare                                   NULL
}
```

FIG. 9 (PRIOR ART)

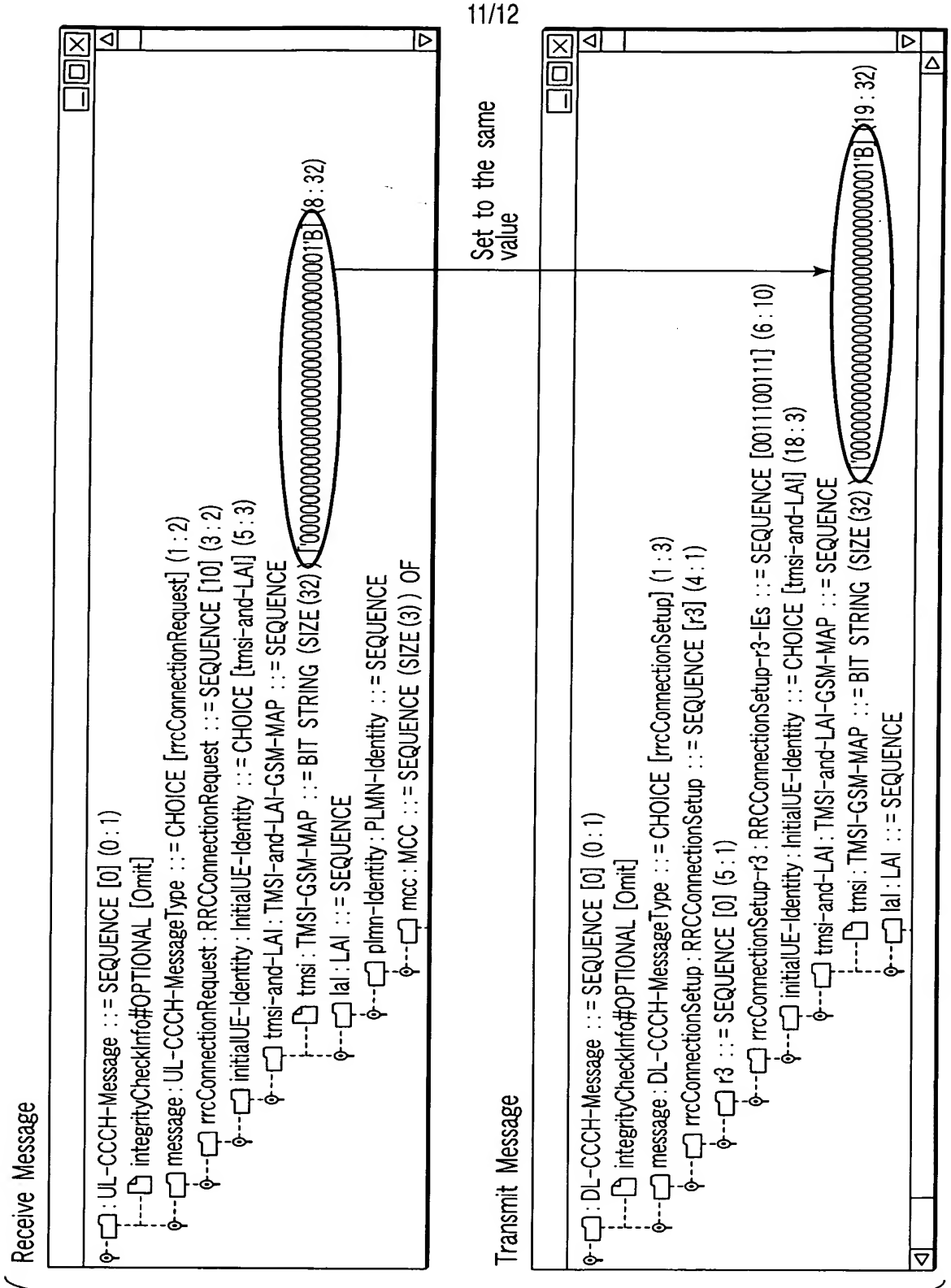

FIG. 10
(PRIOR ART)

FIG. 11
(PRIOR ART)

10/551953